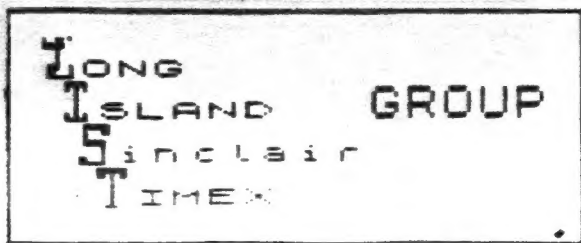


Info on the QL deal: A recent call to Doug Dewey revealed that he was waiting for the written list of names ( 17 people) from the CATS group, to start the ball rolling. Probably the problem is already solved. Any how we will keep you posted.



November 1986

#### Meeting notes for October 19, 1986

There was a problem with reserving the library room so the meeting place was moved to Chuck R's house. A flurry of telephone calls averted a total disaster, and a message left at the library provided directions for a few people to the temporary meeting place. Many apologies for the inconvenience!

Because of the heightened interest in the QL due to the new prices, Stoney M brought his QL for a demo. He ran an impressive graphic routine of random ellipses which looked good even on a color tv. The word processor feature was also shown. Since Stoney hasn't used the data base or the spreadsheet programs too often, they weren't displayed. He also loaded a disassembler he had written in BASIC and began disassembling the QL's ROM.

John P demonstrated two programs he had written which involved his other interest, astronomy. The first one requested the month and year of interest and then drew a calendar for that month showing the phase of the moon in the box for each day. The phases are correct for GMT but are accurate to within plus or minus one half a day for places in the USA. Perhaps this will appear in our next library tape offering.

The second program John demonstrated seemed to be valuable as a teaching tool for constellations and stars. Menus allowed specific stars or constellations to be requested and a map was drawn with important items labeled. Tabular information could also be requested which gave magnitude, distance, etc.

#### Old Business

We desperately need one individual to become the editor of the newsletter. The publishing end seems to be under control, but we need someone to do the evaluation and organization of material to go into the newsletter.

The library tape rules were voted on as having 3 tiers: \$3.00 for members who supply a tape and a program or an article for the newsletter; \$6.00 for members without a tape; and \$10.00 for non-members. We have found that The Sony HF 60 is a good quality tape at a reasonable cost.

#### New Business

In order to avoid or at least minimize meeting place conflicts, it was decided to hold the meetings on the second Sunday of every month starting in December. The meetings will be held at the Huntington Library at 2:00 PM.

Please note that many subscriptions expire Jan 87. Consult the mailing label to see when yours expires.

#### Next Meeting

The November meeting will be held on November 16, 1986 at 2:00 PM at the Huntington Library. The theme will be assembly language.

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### Vendor Report

- Gavillan Printer Supplies: Mr. Shayer of COMPUCARE can supply you with ribbons ( Box of 10 for \$20.00), 500 sheet paper(\$10.00) Printer Head(\$10.00). His S&H charges are a constant of \$12.50 whether you order a single item or all of the above.His address is 2940 Glen Crow Court, San Jose, CA, 95148 (408-238-6251). Note that our member Mr. Skapinski had excellent results with the HP thermal paper. See last issue for a review prepared by him using this paper.
- HOT Z: We recently got version 2.5 of HOT Z. This version is as good and even better than previous versions. Some of the bugs of version 2.1 are gone. The cartridge version of this superb assemble, diassembler, debugger can be directly obtained from the author Mr. Ray Kingsley, 1710 Oliver Ave., San Diego , CA 92109.
- RMG Enterprises can supply software and hardware for your QL, TS2068 or ZX81. Ask for their catalog. 503-655-7484. The address is RMG Enterprises, 1419 1/2 7th St., Oregon City, OR 97045.
- SMUGWARE CONVERSIONS INC., Box 101, Butler, WI 53007 has anounced TS2068 programs like a disassembler (\$5.00), VU-CALAC PRINTER and games like meteor , Moonbuggy, Beer Tap, Train, and Car Dodger.
- Tom Woods has started a dedicated newsletter for the users of the Memotext and Memocalc programs.If interested write to him Thomas Woods, PO Box 64, Jefferson, NH 03583.

### \*\*\*\*\* SUBSCRIPTION NOTICE

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ALL FOR ONLY \$300.  
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Please check your mailing label. Above your last name you will see the month and year in which you will receive your last issue of LISTing (LLIST) Newsletter. If this number does not agree with your records please let us know. This is a good time too, to request information on specific subjects for next years newsletters or just let us know what your special needs are.

# PRODUCT REVIEW--True Descenders Eprom Chip

SOURCE: RMC Enterprises, 1419 1/2 7th St. Oregon City, OR 97045  
Price: \$14.95

If you have been longing to puttison your handy Gorilla Banana or Scallops and because of the flyaway q's and p's, don't! RMC has succeeded in taking the lower-case characters with its replacement eprom version 3.0. I had nearly paid 10 times as much for a new printer solely because of the humiliating capital p's in front of common nouns smack in mid-sentence. Ungrammatical as ugly. Using Tesprint fonts even for family letters had been devouring pages because of the 48-character limit per line.

So you are not a school teacher; who wants to look like the poor kid among the technocrats?

Before ordering you must find out which of 3 versions was issued in your CB so the proper replacement eprom can be sent--there'll be letters like 4AE-0, 3LE, or 3AL-1 on the largest chip on the control board inside. I just looked for anything that had any one set of those letters; sure enough there sat a 3AL-1. The source will send you a corresponding RMC#1,2, or 3. And they are prompt even when paid by personal check--roughly 3 weeks even allowing two weeks for personal check to clear.

Installation was relatively easy (3 attempts with stubby fingers and a dental mirror) but cramped awkwardly for careful positioning of pins. Tip your dip switches for auto test and try it without replacing the 5 screws to case top. That nether row of pins is hard to see for positioning but may be a cinch with some special tool generally unknown to novices. The point is a klutz can do it.

Progress--progress--pretty, huh?

*Joan Kealy*

\*\*\*\*\*

Cont'd from page 10

*Joan K.: You should get a kick out of this cartoon*

## 3.0 FUNCTION SWITCHES

### 3.1 National Character Sets

The character set desired may vary from country to country. Selection of character sets may be made using software switches according to the following table:

COUNTRY	COMMAND
UNITED STATES	ESC L0 [1B 4C 30]H [27 76 48]D
BRITAIN	ESC L1 [1B 4C 31]H [27 76 49]D
GERMANY	ESC L2 [1B 4C 32]H [27 76 50]D
SWEDEN	ESC L3 [1B 4C 33]H [27 76 51]D
FRANCE	ESC L4 [1B 4C 34]H [27 76 52]D
ITALY	ESC L5 [1B 4C 35]H [27 76 53]D

The printer assumes US language mode at power on.

### 3.2 Function of CR

One line feed may or may not take place following a carriage return.

CR only	ESC c [1B 4C 35]H [27 76 53]D
CR + LF	ESC C [1B 43]H [27 67]D



# Program REVIEW\_\_\_\_\_

by Eric Yruegas

I recently had the opportunity to sample a new BBS program for the 2068, called the TS Tinyboard, written by Randy and Lucy Gordon, of the TS Users from Cincinnati.

It is exactly what the name implies. It has a VERY small message base. 20 messages max., to be exact. But, each messages has a total of 1000 characters, or 25 lines of 40 column text.

TST allows the SysOp (System Operator) to have his own logon message. Upon logon, the caller is asked for his name, and that is it. TST has no provision for any logon password or user checking. Anyone who calls has full access to the system.

Upon enter his name, the caller is shown the MENU. These include, Read messages, Leave message, Chat mode, Time online, and Goodbye.

## Read messages:

Here, the user is shown all the messages that are currently present on the BBS. There is no mention that a CTRL-C (CHR\$ 3) will stop the scrolling of messages and return the user to the MENU. If the user does read all of the messages, he is returned to the MENU immediately.

## Leave message:

This section of the BBS allows the caller to leave a message on the BBS for others to read. There is no provision to edit the message, and when the user sends a CTRL-C to save the file, he is promptly given the boot, or in other words, he is kicked out of the BBS! Not too friendly, if you ask me.

## Chat mode:

This allows the user to "chat" online with the SysOp, if the SysOp is available. The users sees "Paging sysop", while at the SysOp's computer, up to 128 blips are sounded to alert the SysOp. If a key is not pressed, the users is told that "The sysop is not available," and is returned to the MENU. If the SysOp does answer the computer's beckoning, a message is printed telling him who he is chatting with. Now both can chat 'till the cows come home, or until the SysOp presses "NOT" on his keyboard. This send the caller back to the MENU.

## Time on:

Here, the BBS calls a routine to read the internal clock and print the elapsed time the caller has been online. This is only for the users information, as the BBS does not kick the user out after a number of minutes have passed, as with some other BBS's.

## Goodbye:

This will log the caller off of the BBS, and prepare to answer another call.

There is the user menu. If nobody is on the BBS, and the SysOp wants to do something, pressing "NOT" reveals a "SYSOP EDITOR"...

Here, the SysOp can Read messages, Delete messages, Leave messages, Save the message base, and Quit the editor. These are useful to the SysOp, as he can do most of the regular functions without having to logon as a user.

Write to me if you do not know of anyone who has it, as it is a public-domain program. Write to:

Eric Yruegas  
4706 Langley Ave.  
Whitehall, OH 43213-3124

# LLIST TO YOUR PRINTER

Can you LLIST a single program line? If not, read on.  
 Can you LLIST those STANDARD GRAPHICS? There is a way.  
 Does your printer interface do what YOU want it to?  
 Can you print a list of all lines you want to relocate so you  
 can create MERGE program sets?  
 Can you omit the LLISTing program itself from being LLISTED?  
 Can you FORMAT the LLISTing as you wish? Why the @XED not!

All these features represent deficiencies in commercial LLIST programs. Mostly it is caused by a lack of recognition that PRINT & LIST refer to the screen but LPRINT & LLIST refer to a printer. The two CANNOT be treated alike. The "advantage" of using tokens in print strings applies only to the 2040 printer. No other printer is compatible with T52058 tokens, nor is there any reason for them to be. Sticking with pure ASCII, with no extensions, lets you talk with almost ALL available printers.

The program listing here has none of the problems listed. It converts tokens to ASCII. It converts command codes to ASCII representations. It filters out color commands and number slugs which should not print anyway. It converts STANDARD GRAPHICS to ASCII representations.

This program can LLIST any number of program lines, from only one to the entire BASIC. You can jump around to collect any set of lines you want, in any order.

This program is also relocatable. A keyword is used for all relative jumps and location. Merely change the consecutive line numbers to a new location and update the value of the keyword in the present line 1000. In this manner you can MERGE it with any of your own programs. You might want to change the keyword to suit yourself.

Though the program is entirely in BASIC, it takes advantage of the powerful editing capabilities of the T52058. It is incidental that you can see the progress on the screen.

You programming experts might like the use of a reentrant loop near the end of the listing for page size control.

If you're frugal, and hate to waste paper, set Margin=0, Width=64 for your printer in line 1000, and Wq=0 in line 1010.

If you're conventional, and like your listings to be as close as possible to the screen, use Margin=15, Width=32, and Wq=0.

If you're really with it, and like your listings indented for maximum readability, try Margin=18, Width=64, and Wq=1.

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## WLLIST

(Listing on Next Page)

\*\*\*\*\*

TRY THIS

```

2 CLS : PAPER 1: BORDER 1: PR
INT "TAB 2: "A SIMPLE PROGRAM TO
SHOW THE EFFECTS OF POKING A
TTRIBUTES"
5 PRINT "TAB 2: "©1986 GEORGE
GILDER"
10 PRINT AT 8,3: "
15 FOR F=10 TO 255 STEP 10
20 PRINT AT 18,2: "ATTRIBUTE #"
30 FOR I=22528 TO 23231: POKE
I, F: NEXT I
40 PAUSE 50: NEXT F
50 STOP
75 REM THIS SHORT PROGRAM
SHOWS THE EFFECT OF POKING INTO
THE ATTRIBUTE FILE. TO SEE THE
COMPLETE RANGE CHANGE LINE 15 TO
FOR F=0 TO 255
9000 SAVE "ATTR" LINE 1
    
```



```

1000 LET Wk=1000: LET Margin=0: LET Wide=80: LET Wln=2:( GO TO Wk+19: DIM A$(Mar
gin)
1001 (? : INPUT PAPER 5: LLIST " : PAPER 7 "From LINE: " ;Wfirst: " to " ;Wlast
1002 LET Wa=PEEK 23635+256*PEEK 23636
1003 LET Wn=256*PEEK Wa+PEEK (Wa+1): LET Wl=PEEK (Wa+2)+256*PEEK (Wa+3): IF Wn(W
first THEN LET Wa=Wa+Wl+4: GO TO Wk+3
1004 IF Wn>Wlast THEN GO TO Wk+17
1005 CLS : PRINT TAB 4-LEN STR$ Wn;Wn: " " : FOR n=Wa+4 TO Wa+Wl+2: LET W=PEEK (n
): IF W=14 THEN LET n=n+5: GO TO Wk+9

```

```

1000 LET Wk=1000: LET Margin=15:
LET Wide=32: LET Wln=2:( GO TO
Wk+19: DIM A$(Margin)
1001 (? : INPUT PAPER 5: LLIST "
: PAPER 7 "From LINE: " ;Wfirst: "
to " ;Wlast
1002 LET Wa=PEEK 23635+256*PEEK
23636
1003 LET Wn=256*PEEK Wa+PEEK (Wa
+1): LET Wl=PEEK (Wa+2)+256*PEEK
(Wa+3): IF Wn(Wfirst THEN LET W
a=Wa+Wl+4: GO TO Wk+3
1004 IF Wn>Wlast THEN GO TO Wk+1
7
1005 CLS : PRINT TAB 4-LEN STR$
Wn;Wn: " " : FOR n=Wa+4 TO Wa+Wl+
2: LET W=PEEK (n): IF W=14 THEN
LET n=n+5: GO TO Wk+9

```

```

1000 LET Wk=1000
: LET Margin=10
: LET Wide=64
: LET Wln=2
:( GO TO Wk+19
: DIM A$(Margin)

```

```

1001 (?

```

```

: INPUT PAPER 5: LLIST " : PAPER 7 "From LINE: " ;Wfirst: " to
" ;Wlast

```

```

1002 LET Wa=PEEK 23635+256*PEEK 23636

```

```

1003 LET Wn=256*PEEK Wa+PEEK (Wa+1)

```

```

: LET Wl=PEEK (Wa+2)+256*PEEK (Wa+3)

```

```

: IF Wn(Wfirst THEN LET Wa=Wa+Wl+4

```

```

: GO TO Wk+3

```

```

1004 IF Wn>Wlast THEN GO TO Wk+17

```

```

1005 CLS

```

```

: PRINT TAB 4-LEN STR$ Wn;Wn: " "

```

```

: FOR n=Wa+4 TO Wa+Wl+2

```

```

: LET W=PEEK (n)

```

```

: IF W=14 THEN LET n=n+5

```

```

: GO TO Wk+9

```

## THE GAVILAN PRINTER INFORMATION

Presented by NAP

Here is the information for the all those of you who bought the little \$20.00 gem. Note the vendor section (p.2) for a source of supplies for this printer

### PRINTER SPECIFICATION

#### DESCRIPTION

The printer mechanism uses a thermal dot matrix replaceable print head, a heat transfer ribbon cartridge and friction feed roller. It is light weight, small in size and low in power consumption.

The unit, with the thermal ribbon cartridge installed, prints on standard single sheet 8 1/2 by 11 inch paper or 8 1/2 inch roll paper. Thermal paper may be used without the ribbon cartridge installed.

Standard character pitch is 10 characters per inch with a maximum of 80 characters per line. Seven languages and a set of block graphic characters are available.

The printer has a built-in software selectable bit image graphics mode. Dot resolution in the graphics mode is 1/144 inch vertical and 1/120 inch horizontal.

#### PRINTER FUNCTION CODES

##### 1.1 BS (08)H (08)D Back Space

BS is effective in incremental print mode only. Back spacing is carried out after the prior data character is printed. It is ignored if no prior print data is found.

##### 1.2 HT (09)H (09)D Horizontal Tab

HT moves the head to the next horizontal tab set position. It is ignored if there are no more horizontal tab set positions.

##### 1.3 LF (0A)H (10)D Line Feed

LF advances paper one line space, normally 1/6 inch. LF causes the contents of the printer buffer to be printed before it is executed.

##### 1.4 VT (0B)H (11)D Vertical Tab

VT advances the paper multiple line spaces (dependent on line feed pitch setting) to the next vertical tab set. If no tab set is found, it causes an advance to the next top-of-form. VT causes the contents of the printer buffer to be printed before it is executed.

##### 1.5 FF (0C)H (12)D Form Feed

FF advances the paper to the next top-of-form. It causes the contents of the printer buffer to be printed before it is executed. Top-of-form to the next top-of-form is defined as 11 inches independent of the line feed pitch setting.

1.6 CR (0D)H (13)D Carriage Return  
CR moves the head to the margin in incremental or unidirectional mode. CR causes the contents of the printer buffer to be printed before it is executed.

1.7 DC1 (11)H (17)D Device Control 1  
DC1 places the printer in the SELECT state. The printer assumes DESELECT state at power on.

1.8 DC3 (13)H (19)D Device Control 3  
DC3 places the printer in the DESELECT state after the contents of the printer buffer are printed. Power may be turned OFF to the printer mechanism and its electronics after the SELECT signal from the printer electronics goes LOW. All characters sent while the printer is in the DESELECT state are acknowledged and ignored until a DC1 is sent to the printer.

1.9 CAN (18)h (24)D Cancel  
CAN cancels the print data received prior to this code and within the same line as this code. This code is ignored in incremental mode. Any control code or print mode in effect prior to the CAN remains valid.

## 2.0 SPECIAL FUNCTION CODES

2.1 Character Pitch  
Character pitch is the number of characters per inch in a line of print. The printer has two basic pitches: Pica (10 CPI) and Elongated Pica (5 CPI). The printer assumes Pica pitch at power on.

ESC P [1B 50]H [27 80]D	10CPI
ESC E [1B 45]H [27 69]D	5CPI

2.2 Line Feed Pitch  
The number of lines printed per inch in the vertical direction can be set by Escape code sequences. The line feed amount can be set to 1/6 inch or n/144 inch (where n is a two digit number between 00 and 99 decimal). Line feed pitch remains effective until changed by another command. The printer assumes a 1/6 inch line feed at power on. If the Escape code sequence to set the line feed pitch occurs in the middle of a line, it will become effective at the next LF code received.

ESC 6 [1b 36]h [27 54]D	1/6" line feed
ESC T nln0 [1B 54 (n1) (n0)]H [27 84 nln0]D	n/144" line feed



Underline

An underline Escape code sequence causes subsequent characters to be underlined until a stop underline Escape code sequence is received. All characters (including spaces) between the start and stop codes will be continuously underlined. The printer assumes no underline state at power on.

ESC U [1B 55]H [27 85]D                      Start underline

ESC u [1B 75]H [27 117]D Stop underline

For example the entry:

This is an ESC U example of underlining ESC u a sentence.  
will print as:

This is an example of underlining within a sentence.

Tab Set/Clear

As many as 8 horizontal and 8 vertical tabs may be set at one time. The horizontal tab command, HT (09), causes the print head to move to the next horizontal tab set. The printer ignores a horizontal tab command if no tabs are set or if the head is beyond the last tab set. Tabs may be cleared selectively or entirely. No horizontal tabs are set when the printer is powered on.

The vertical tab command, VT (0B)H or (11)D, causes the paper to advance to the next vertical tab set. The paper advances to the next top-of-form if no vertical tabs are set or the paper has advanced beyond the last tab set. Vertical tabs may be cleared selectively or entirely. No vertical tabs are set when the printer is powered on.

ESC H a,b,c,...,n. [1B 48]H [27 72]D      Horizontal tab set

ESC h a,b,c,...,n. [1B 68]H [27 104]D Horizontal tab clear

ESC h c [1B 68 63]H [27 104 99]D Clear all hor.  
tabs

ESC V a,b,c,...,n. [1B 56]H [27 86]D    Vertical tab set

ESC v a,b,c,...,n. [1B 76]H [27 118]D Vertical tab clear

ESC v c [1B 76 63]H [27 118 99]D Clear all ver.  
tabs

a,b,c,...,n are all 2 digit decimal numbers expressed in ASCII.

The numbers must be separated by a comma and terminated with a period. For example, to set horizontal tabs in columns 8, 20 and 40, the command would be 'ESC H 08,20,40.' [1B 48 30 38 2C 32 30 2C 34 30 2E]H. The spaces shown in the above example are for appearance only and should not be sent to the printer.

## 2.5 Incremental/Buffer Mode

The printer prints each character as it is received in incremental mode. A carriage return causes the print head to move to the left margin. In buffer mode, characters are stored in a buffer until a print command (e.g., a carriage return) is received or an entire line is received without a print command. In buffer mode, the printer may print either uni- or bi- directional. Buffer mode is assumed at power on.

ESC [ [1B 58]H [27 91]D                      Incremental mode

ESC ] [1B 5D]H [27 93]D                      Buffer mode

## 2.6 Uni-Bi-directional

The automatic selection of bi-directional printing when thermal paper with no ribbon is being used, may be overridden. This would normally be done in the graphics mode. Selecting bi-directional printing with the ribbon installed is ignored.

ESC > [1B 3E]H [27 62]D                      Uni-directional

ESC < [1B 5D]H [27 93]D                      Bi-directional

## 2.7 Bit Image Graphics

The printer has a graphics capability which enables the user to specify which wires of the print head are to be fired in any dot position. Bit image graphics and character mode may not be mixed in the same line. Line feed pitch should be set to 16/144 inch for full page high resolution graphics.

ESC G n2n1n0 [1B 47 (n2) (n1) (n0)]H [27 71 n2n1n0]D

This is a five byte command which sets up the bit image graphics mode. The three bytes, n2n1n0, are the ASCII representation of the number of dot positions (horizontally) to be printed, the command would be ESC G 200 ([1B 47 32 30 30]H or [27 71 50 48 48]D). This five byte command would then be followed by 200 two byte sequences, with each sequence of two bytes controlling one dot position. The first byte in each sequence controls the top eight wires of the print head. Bit 1 of the first byte drives the top wire, bit 2 drives the second wire, etc. The second byte of each sequence controls the bottom eight wires. Bit 1 of the second byte drives the ninth wire, bit 2 drives the tenth wire, etc.

Horizontal resolution is 1/120 inch with a maximum of 960 dots per line. Vertical resolution is 1/144 inch.

## LISTing Policy:

1986

Annual Dues.....\$15.00 Issue Price \$1.50 (includes P&P) - Double Issues \$3.00

One "Sample" copy sent upon receipt of large SASE.

Copies provided on exchange basis with other bona fide user groups.

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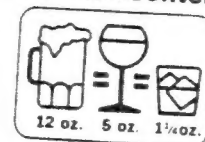
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may get more than one issue and you will definitely  
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peers.

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disclaims any responsibility for anything you may do to your computer as a result of  
reading any article in LISTing.

Please note our new address - PO BOX 438, Centerport, N.Y. 11721-0438  
Mail sent to the old address must be forwarded there and will take  
longer to reach us.

All are equal  
in alcohol content.



Beer: 4.5% by volume; Wine: 11% by volume  
Liquor: 80 proof or 40% by volume



# LIST

TO:  
 Don  
 3310 Clover Dr S  
 Cedar Rapids IA  
 Jan-82  
 Lambert  
 52404

LIST  
 P.O. BOX 438  
 CENTERPORT, N.Y. 11721-0438



Long Island  
 Sinclair Times  
 Group  
 Huntington, NY  
 Library  
 2 PM



Next Meeting: Nov 16

Sunday, October 19th at 2:00 P.M in the Huntington Public Library.

From LIE: Exit 49 north on Rte 110, 7.1 miles to Main St (Rte 25A) in Huntington. Turn left, go 3 blocks to Prospect St.  
 From NSR: Exit 40 north on Rte 110, 6.0 miles to Main St (Rte 25A) in Huntington. Turn left, go 3 blocks to Prospect St.

